- 77. (Amended) The method of claim 76 wherein the transformed cereal plant seed is from maize or sorghum.
- 78. (Amended) The method of claim 95 wherein the plant derived polynucleotide encodes HT12 or ESA.
  - 79. (Amended) A transformed cereal plant seed produced by the method of claim 95.
- (Amended) The expression cassette according to claim 104 wherein the promoter is a gamma zein promoter or a waxy promoter.
  - 91. (Amended) A vector comprising the expression cassette of claim 104.
  - 92. (Amended) A cereal plant cell transformed with the vector of claim 91.
  - 93. (Amended) A transformed cereal plant comprising the vector of claim 91.

Please add new claims 95-111 as follows:

--95. A method for increasing the level of lysine or a sulfur-containing amino acid in a cereal plant seed, the method comprises transforming a cereal plant cell with an expression cassette and regenerating a transformed cereal plant to produce a transformed cereal plant seed, wherein the expression cassette comprises a seed endosperm-preferred promoter operably linked to a plant derived polynucleotide encoding a polypeptide, and wherein expression of the polypeptide increases the level of lysine or a sulfur-containing amino acid in the transformed cereal plant seed compared to a corresponding non-transformed cereal plant seed.

- 96. The method of claim 95 wherein the seed endosperm-preferred promoter is heterologous to the plant derived polynucleotide.
- 97. A transformed cereal plant seed which has been transformed with a plant derived polynucleotide to express a polypeptide in endosperm of the transformed cereal plant seed, wherein the transformed cereal plant seed exhibits an elevated level of lysine or a sulfur-containing amino acid compared to a corresponding non-transformed cereal plant seed.
- 98. The transformed cereal plant seed of claim 97 wherein the transformed cereal plant seed is from maize, wheat, rice, or sorghum.
- 99. The transformed cereal plant seed of claim 98 wherein the transformed cereal plant seed is from maize or sorghum.
- 100. The transformed cereal plant seed according to claim 97 wherein the amount of lysine or sulfur-containing amino acid in the transformed cereal plant seed is increased at least about 10 percent by weight compared to a corresponding non-transformed cereal plant seed.
- 101. The transformed cereal plant seed according to claim 100 wherein the amount of lysine or sulfur-containing amino acid in the transformed cereal plant seed is increased at least about 15 percent by weight to about 10 times compared to a corresponding non-transformed cereal plant seed.
- 102. The transformed cereal plant seed according to claim 101 wherein the amount of lysine or sulfur-containing amino acid in the transformed cereal plant seed is increased at least about 20 percent by weight to about 10 times compared to a corresponding non-transformed cereal plant seed.

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- 103. A food or feed product produced from the transformed cereal plant seed of claim 97.
- 104. An expression cassette comprising a seed endosperm-preferred promoter operably linked to a plant derived polynucleotide encoding a polypeptide having about 7 mole % to about 50 mole % lysine or about 6 mole % to about 40 mole % of a sulfur containing amino acid.
- 105. The expression cassette of claim 104 wherein the seed endosperm-preferred promoter is heterologous to the plant derived polynucleotide.
- 106. A seed from a transformed cereal plant which has been transformed with a plant derived polynucleotide to express a polypeptide in the endosperm of the transformed cereal plant seed, wherein the transformed cereal plant seed exhibits an elevated level of lysine or a sulfur-containing amino acid compared to a corresponding non-transformed cereal plant seed.
- 107. A method for increasing the level of lysine or a sulfur-containing amino acid in a maize seed, the method comprises transforming a maize cell with an expression cassette and regenerating a transformed maize plant to produce a transformed maize seed, wherein the expression cassette comprises a seed endosperm-preferred promoter operably linked to a plant derived polynucleotide encoding a polypeptide, and wherein expression of the polypeptide increases the level of lysine or a sulfur-containing amino acid in seed of the transformed maize plant compared to seed of a corresponding non-transformed maize plant.
- 108. The method of claim 107 wherein the seed endosperm-preferred promoter is heterologous to the plant derived polynucleotide.